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Englewood Cliffs, New Jersey 07632, has so far been withheld from the shortwave transmission medium. For the purpose of this invention, this TCP/IP protocol is modified and adapted so that it can also be used for the chronologically sequential alternating, forward and backward connection, common in the shortwave range. Such a shortwave connection transmitting data according to the TCP/IP protocol is therefore also suitable for requesting data on the Internet. An Internet user on a ship who has a shortwave transmitter/receiver device with these properties can, therefore, at any time, for example from an Internet provider, request a specific Internet content via his shortwave connection, and this will then be directly transmitted to him via a wideband satellite transmission channel. Although such shortwave radio connections are relatively narrowband, the opportunity is hereby provided for the first time for even users who do not have any opportunity for a wire connection to an Internet service provider to make use of the possibility of an Internet information transmission with high transfer rates via a satellite transmission channel.

The invention is described in further detail below with reference to a schematic drawing, based on an exemplary embodiment.

The figure shows an Internet service provider 1 that makes available content from the Internet 2 via a satellite transmission path 3, 4, 5 to various users A and B, at a high transmission rate. A suitable decoder 7 is provided in a computer 6 of each user. The data transmission via the satellite transmission path takes place according to the TCP/IP protocol.

At each user station A and B, a shortwave transmitter/receiver 8 is provided that is connected with a shortwave transmitter/receiver station 9 of a base station Z having Internet access. Suitable shortwave devices 8 and 9 are the XK2000 devices of Rohde & Schwarz, as described, for example, in the data sheet "HF Transceiver Family XK2000". The computers 6 and 10 that control the devices 8 and 9 provide a control program that corresponds to the TCP/IP protocol and is adapted only to the special requirements of a shortwave connection. Thus, the shortwave connection between the devices 8 and 9 functions, exactly as does the satellite transmission path, according to the TCP/IP protocol, and is thus directly suitable for access from stations A and B to the Internet 2, via Z.

